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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/931,291	08/16/20	001	Marinus Frans Kaashoek	12221-005001	3137
26161	7590 0	03/08/2004		EXAMINER	
FISH & RICHARDSON PC 225 FRANKLIN ST BOSTON, MA 02110			JACKSON, JENISE E		
				ART UNIT	PAPER NUMBER
,			·	. 2131	1
			DATE MAILED: 03/08/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.					
	Office Action Company	09/931,291	KAASHOEK ET AL.				
•	Office Action Summary	Examiner	Art Unit				
		Jenise E Jackson	2131				
	The MAILING DATE of this communication appears n the cover sheet with the correspondence address Period for Reply						
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by statically received by the Office later than three months after the mained patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be tinely within the statutory minimum of thirty (30) day and will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed /s will be considered timely. I the mailing date of this communication. ID (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	· ·					
- /	•	nis action is non-final.					
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s)						
2) Notice 3) Information	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date <u>4</u> .	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-6, 9-13, 15-16 rejected under 35 U.S.C. 102(e) as being anticipated by Porras et al(6,321,338).
- 3. As per claim 1, Porras et al. discloses a central controller system(i.e. resolver, ref #20, fig. 2, sheet 2) to coordinate thwarting denial of service attacks(see col. 7, lines 43-54, col. 13, lines 31-59) on a victim data center(i.e. domain)(see col. 3, lines 17-21, 32-35, col. 8, lines 31-45, that is coupled to a network(see col. 8, lines 66-67), a communication device to receive data from a plurality of monitors, over a hardened, redundant network(see col. 8, lines 13-21); a computer system, the computer system includes, a process that executes on the computer system to analyze the data from the plurality of monitors to determine network traffic statistics that can identify malicious network traffic(see col. 13, lines 16-30).
- 4. As per claim 2, Porras et al. discloses an analysis and filtering process to identify malicious traffic and to eliminate the malicious traffic from entering the victim data center(see col. 5, lines 4-22, col. 13, lines 60-65, col. 14, lines 1-7).
- 5. As per claim 3, Porras et al. discloses wherein the data analyzed by the control center is collected statistical information about network flows(see col. 2, lines 36-53).

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6. As per claim 4, Porras discloses aggregates traffic information and coordinates measures to locate and block the sources of an attack(see col. 1, lines 55-65, col. 5, lines 4-22).

- 7. As per claim 5, Porras discloses wherein the control center is a hardened site(see col. 2, lines 8-10).
- 8. As per claim 6, Porras discloses wherein the analysis process executed on the control center analyzes data from gateways and data collectors dispersed throughout the network(see col. 8, lines 13-30).
- 9. As per claim 9, it is rejected under the same basis as claim 1.
- 10. As per claim 10, limitations have already been addressed(see claim 2).
- 11. As per claim 11, limitations have already been addressed(see claim 4).
- 12. As per claim 12, Porras discloses receiving and analyzing are performed by a control center coupled to the data collectors via the hardened, redundant network(see col. 8, lines 13-21).
- 13. As per claim 13, Porras discloses wherein plurality of monitoring devices(see col. 8, lines 13-21); are data collectors dispersed throughout the network and at least one gateway device that is disposed adjacent the victim site to protect the victim)(see col. 3, lines 17-21, 32-35, col. 8, lines 31-45), and wherein analyzing includes analyzing at a control center data from the at least one gateway and the data collectors dispersed throughout the network(see col. 8, lines 13-30).
- 14. As per claim 15, it is rejected under the same basis as claim 8.
- 15. As per claim 16, Porras discloses sending requests to gateways and/or data collectors for data pertaining to an attack(see col. 8, lines 40-46).

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- 16. As per claim 17, Porras discloses sending requests to gateways and/or data collectors for requests to install filters to filter out attacking traffic(see col. 5, lines 4-22, col. 13, lines 60-65, col. 14, lines 1-7).
- 17. As per claim 18, it is rejected under the same basis as claim 1.
- 18. As per claim 19, it is rejected under the same basis as claim 12.

Claim Rejections - 35 USC § 103

- 19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 20. Claims 7-8, 14, are rejected under 35 U.S.C. 103(a) as being unpatentable over Porras in view of Hill et al.
- 21. Porras does not disclose classifying attack. However, Hill et al. does disclose classifying attacks (see col. 5, lines 66-67, col. 6, lines 1-18). It would have been obvious to one of ordinary skill in the art at the time of the invention to include Hill et al. classifying attacks within Porras, because classifying attacks displays attack information in a usable and quickly interpretable form to a network manager while minimizing the loading on the computer (see col. 2, lines 45-50 of Hill et al.). Therefore, by classifying attacks provides a network manager with knowledge of the severity and overall nature of the attack (see col. 2, lines 53-60 of Hill et al.).
- 22. As per claims 7, 14, Porras discloses wherein the analysis process classifies attacks and determines a response based on the class of attack(see col. 2, lines 63-67, col. 3, lines 1-17).

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23. As per claim 8, Hill et al. discloses wherein the classes of attack are denoted as low-grade with spoofing, low-grade without spoofing and high-grade whether spoofing or non-spoofing(see fig. 3, sheet 3, fig. 7, sheet 6).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenise E Jackson whose telephone number is (703) 306-0426. The examiner can normally be reached on M-Th (6:00 a.m. - 3:30 p.m.) alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (703) 305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100